

CLAIMS:

1. A transponder (1) that is arranged for non-contacting communication with a communication station and that has transmission means (2) and that has an integrated circuit (5) with circuit connecting contacts (6, 7), wherein the transmission means are connected to the circuit connecting contacts (6, 7) and an input voltage (UIN) can be picked off from said circuit connecting contacts, wherein the integrated circuit (5) has a first circuit section (18) and a second circuit section (19), wherein the first circuit section (18) is arranged for being supplied with a first supply voltage (VL-HV) and the second circuit section (19) is arranged for being supplied with a second supply voltage (VL-LV), wherein first rectifier means (20) and limiter means (21) cooperating with said first rectifier means (20) are provided, wherein a voltage (UIN) representing the input voltage (UIN) can be fed to the first rectifier means (20), wherein the first supply voltage (VL-HV) can be picked off from the first rectifier means (20) or from the limiter means (21), wherein second rectifier means (23) and control means (24) for controlling said second rectifier means (23) are provided, wherein a voltage (UIN) representing the input voltage (UIN) can also be fed to the second rectifier means (23), wherein the second supply voltage (VL-LV) can be picked off from the second rectifier means (23), and wherein the value of the second supply voltage (VL-LV) that can be picked off from the second rectifier means (23) can be controlled by the control means (24).
2. A transponder (1) as claimed in claim 1, wherein the control means (24) are arranged to control the value of the second supply voltage (VL-LV) as a function of the value of the output variable (VL-LV) arising at the output of the second rectifier means (23).
3. An integrated circuit (5) that is intended for use in a transponder (1) for non-contacting communication with a communication station and that has circuit connecting contacts (6, 7) that are intended for connection to transmission means (2) of the transponder (1), from which contacts (6, 7) an input voltage (UIN) can be picked off, and that has a first circuit section (18) and a second circuit section (19), wherein the first circuit section (18) is arranged for being supplied with a first supply voltage (VL-HV) and the second circuit section (19) is arranged for being supplied with a second supply voltage (VL-LV), wherein

first rectifier means (20) and limiter means (21) cooperating with said first rectifier means (20) are provided, to which first rectifier means (20) a voltage (UIN) representing the input voltage (UIN) can be fed and from which limiter means (21) the first supply voltage (VL-HV) can be picked off, wherein second rectifier means (23) and control means (24) for
5 controlling said second rectifier means (23) are provided, to which second rectifier means (23) a voltage (UIN) representing the input voltage (UIN) can also be fed and from which second rectifier means (23) the second supply voltage (VL-LV) can be picked off, and by which control means (24) the amplitude of the second supply voltage (VL-LV) that can be picked off from the second rectifier means (23) can be controlled.

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4. An integrated circuit (5) as claimed in claim 3, wherein the control means (24) are arranged to control the amplitude of the second supply voltage (VL-LV) as a function of the amplitude of the output variable (VL-LV) arising at the output of the second rectifier means (23).